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# Applications of Renormalization Group Methods in Mathematical Sciences

edited by Keiichi R. Ito and Tadahiro Miyao

December, 2010
Research Institute for Mathematical Sciences
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# *Applications of Renormalization Group Methods in Mathematical Sciences*

*September 9～11, 2009*

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## Preface

The symposium on applications of renormalization group methods in mathematical sciences was held at the Research Institute for Mathematical Sciences of Kyoto University from September 09, 2009 through September 11, 2009. This symposium was organized to discuss recent progresses and problems in mathematical physics in which renormalization group methods are used practically or conceptually.

Though it was hot and humid in Kyoto while the symposium, we had more than 16 talks and 40 participants who were very keen to join the discussions. The contents of the talks were very wide and some of them may not be directly related to the renormalization group methods, but we believe that these lectures will help the reader to discover interesting problems in sciences and/or find ideas to solve his or her problem(s).

Though talks were all interesting and exciting, it is very regretful that we could not persuade some speakers to contribute their talks to this proceedings. All manuscripts in this book were carefully reviewed by anonymous referees chosen by the organizers.

We would like to thank not only speakers but also all participants who joined the exciting discussions in the seminar. Finally we would like to express our sincere thanks to the Res. Inst. Math. Sci. for generous supports including financial ones. This symposium was partially supported by the Grant-in-Aid for Scientific Research (C), No.20540221, the Ministry of Education, Science and Culture, Japanese Government.

September 2010, Kyoto/Osaka

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